

attached to this Amendment.

Sub B1
1. (Amended) A manufacturing method of a phase-shift mask, comprising:

seeking the relationship of optical conditions of an exposure optical system used for exposure and a mask structure with displacement of a pattern to be transferred by exposure;

finding said optical conditions and said mask structure that can limit displacement of said pattern within a required range, taking manufacturing errors of the mask into consideration;

examining the optical conditions and the mask structure obtained to determine whether they ensure a required exposure tolerance and a required focal depth; and

executing fabrication of such a mask to obtain said mask structure when the result of the examination is acceptable.

Sub B2
2. (Amended) The manufacturing method of a phase-shift mask according to claim 1 wherein said optical conditions include, at least, a numerical aperture and a partial coherence factor.

3. (Amended) The manufacturing method of a phase-shift mask according to claim 1 wherein said phase-shift mask is a Levenson phase-shift mask.

4. (Amended) The manufacturing method of a phase-shift mask according to claim 3 wherein said Levenson phase-shift mask is of a substrate-excavation-type, and said mask structure is regulated by the amount of excavation of a substrate.

5. (Amended) The manufacturing method of a phase-shift mask according to claim 1 wherein said Levenson phase-shift mask is of a phase-shifter-added-type, and said mask structure is regulated by the thickness of a phase shifter.

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6. (Amended) A method of making a resist pattern through exposure using a phase-shift mask, comprising:

seeking the relationship of optical conditions of an exposure optical system used for exposure and a mask structure of said phase-shift mask with displacement of a pattern to be transferred by exposure;

finding said optical conditions and said mask structure that can limit displacement of said pattern within a required range, taking manufacturing errors of the mask into consideration;

examining the optical conditions and the mask structure obtained to determine whether they ensure a required exposure tolerance and a required focal depth; and

when the result of the examination is acceptable, fixing said exposure optical system to the optical conditions selected, then actually manufacturing said phase-shift mask having the mask structure selected, and conducting exposure using said exposure optical system and said phase-shift mask.

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7. (Amended) The method of making a resist pattern according to claim 6 wherein said optical conditions include, at least, a numerical aperture and a partial coherence factor.

8. (Amended) The method of making a resist pattern according to claim 6 wherein said phase-shift mask is a Levenson phase-shift mask.

9. (Amended) The method of making a resist pattern according to claim 8 wherein said Levenson phase-shift mask is of a substrate-excavation-type, and said mask structure is regulated by the amount of excavation of a substrate.

10. (Amended) The method of making a resist pattern according to claim 8 wherein said Levenson phase-shift mask is of a phase-shifter-added-type, and said mask structure is regulated by the thickness of a phase shifter.

11. (Amended) A manufacturing method of a semiconductor device having a step of making a resist pattern through exposure using a phase-shift mask;

seeking the relationship of optical conditions of an exposure optical system used for exposure and a mask structure of said phase-shift mask with displacement of a pattern to be transferred by exposure;

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finding said optical conditions and said mask structure that can limit displacement of said pattern within a required range, taking manufacturing errors of the mask into consideration;

examining the optical conditions and the mask structure obtained to determine whether they ensure a required exposure tolerance and a required focal depth; and

when the result of the examination is acceptable, fixing said exposure optical system to the optical conditions selected, then actually manufacturing said phase-shift mask having the mask structure selected, and conducting exposure using said exposure optical system and said phase-shift mask.

12. (Amended) The manufacturing method of a semiconductor device according to claim 11 wherein said optical conditions include, at least, a numerical aperture and a partial coherence factor.

13. (Amended) The manufacturing method of a semiconductor device according to claim 11 wherein said phase-shift mask is a Levenson phase-shift mask.